

³/₁₈. The process of claim ¹/₁₆ wherein at least two types of nylon are present in the carpeting, wherein the at least two types of nylon are dissolved in a solvent at at least a temperature wherein all the types of nylon are dissolved; cooling the solvent to a temperature for which one type of nylon precipitates out, but above the dissolution temperature of the remaining types of nylon; removing the precipitate; and then cooling the solvent to a temperature for which another type of nylon precipitates out and repeating the removal of precipitate and cooling steps until all types of nylon have been precipitated.

⁴/₁₉. The process of claim ²/₁₇ wherein two types of nylon are present in the carpeting.

⁵/₂₀. The process of claim ⁴/₁₉ wherein the two types of nylon are Nylon 6 and Nylon 6,6.

⁶/₂₁. The process of claim ³/₁₈ wherein two types of nylon are present in the carpeting.

⁷/₂₂. The process of claim ⁶/₂₁ wherein the two types of nylon are Nylon 6 and Nylon 6,6.

⁸/₂₃. The process of claim ¹/₁₆ further comprising reducing the carpeting to granular particulate form prior to dissolving the nylon.

⁹/₂₄. The process of claim ⁸/₂₃ further comprising separating inert solids and non-fibrous fillers from the carpet prior to dissolving the nylon.

¹⁰/₂₅. The process of claim ¹/₁₆ wherein the carpeting contains at least one other fiber.

¹¹/₂₆. The process of claim ¹⁰/₂₅ wherein the at least one other fiber comprises a synthetic polymer fiber.

¹²/₂₇. The process of claim ¹¹/₂₆ wherein the at least one other fiber is a polyester.

¹³/₂₈. The process of claim ¹¹/₂₆ wherein the at least one other fiber is a polyamide.

¹⁴/₂₉. The process of claim ¹¹/₂₆ wherein the at least one other fiber is a terephthalate polymer.

¹⁵/₃₀. The process of claim ¹¹/₂₆ wherein the at least one other fiber comprises a natural fiber.

¹⁶/₃₁. The process of claim ¹¹/₂₆ wherein the solvent is glycerol.

¹⁷/₃₂. The process of claim ¹¹/₂₆ wherein the solvent is ethylene glycol.